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(54) Title: **SILANISED SILICAS**

(57) Abstract: Silanised, structurally modified silicas, characterised by vinyl groups or vinyl silyl groups fixed to the surface, hydrophobic groups such as trimethyl silyl and/or dimethyl silyl and/or monomethyl silyl additionally being fixed to the surface, having the following physico-chemical properties: BET surface area m²/g: 25 - 400 Average primary particle size nm: 5 - 50 pH: 3-10 Carbon content %: 0.1-10 DBP value %: < 200 or not determinable are produced by treating silica with a surface-modifying agent, heat treating and then structurally modifying the mixture obtained. The silica can be used as a filler in silicone rubber.

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